

## § 30.10-71

### § 30.10-71 Tankerman—TB/ALL.

The following ratings are established in part 13 of this chapter. The terms for the ratings identify persons holding valid merchant mariners' documents for service in the ratings issued under that part:

- (a) Tankerman-PIC.
- (b) Tankerman-PIC (Barge).
- (c) Restricted Tankerman-PIC.
- (d) Restricted Tankerman-PIC (Barge).
- (e) Tankerman-Assistant.
- (f) Tankerman-Engineer.

[CGD 79-116, 60 FR 17155, Apr. 4, 1995]

## Subpart 30.15—Equivalents

### § 30.15-1 Conditions under which equivalents may be used—TB/ALL.

(a) Where in this subchapter it is provided that a particular fitting, material, appliance, apparatus, or equipment, or type thereof, shall be fitted or carried in a vessel, or that any particular provision shall be made or arrangement shall be adopted, the Commandant may accept in substitution therefor any other fitting, material, apparatus, or equipment, or type thereof, or any other arrangement: *Provided*, That he shall have been satisfied by suitable trials that the fitting, material, appliance, apparatus, or equipment, or type thereof, or the provision or arrangement is at least as effective as that specified in this subchapter.

(b) In any case where it is shown to the satisfaction of the Commandant that the use of any particular equipment, apparatus, or arrangement not specifically required by law is unreasonable or impracticable, the Commandant may permit the use of alternate equipment, apparatus, or arrangement to such an extent and upon such conditions as will insure, to his satisfaction, a degree of safety consistent with the minimum standards set forth in this subchapter.

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### Subpart 30.25—Commodities Regulated

#### § 30.25-1 Cargoes carried in vessels certificated under the rules of this subchapter.

The cargoes listed in Table 30.25-1 are flammable or combustible and when transported in bulk must be in vessels certificated under the rules of this subchapter. A mixture or blend of two or more cargoes appearing in Table 30.25-1 may be transported under the provisions of this subchapter. A category A, B, or C noxious liquid substance (NLS) cargo, as defined in § 153.2 of this chapter, that is listed in Table 30.25-1 and any mixture containing one or more category A, B, or C NLS cargoes listed in Table 30.25-1 may be carried in bulk under this subchapter if the vessel is not regulated under part 153 of this chapter. If the vessel is regulated under § 153.1 of this chapter, category A, B, and C NLS cargoes must be carried under part 153, or, as an alternative in the case of category C oil-like NLS, under 33 CFR part 151. Requirements for category D NLS cargoes and mixtures of non-NLS cargoes with category D NLS cargoes are in 33 CFR part 151.

TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES

Cargo name	IMO Annex II Pollution Category
Acetone .....	III @ D
Acetophenone .....	D
Acrylonitrile-Styrene copolymer dispersion in Polyether polyol .....	III
Alcohols (C13+) .....	A
Alcohols beverages, n.o.s. .....	B
Alcohol(C6-C17)(secondary) poly(3-6ethoxylates) .....	B
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates .....	B
Alcohol(C9-C11) poly(2.5-9)ethoxylate .....	B
Alcohol(C12-C15) poly(... )ethoxylates, see Alcohol(C12-C16) poly(... )ethoxylates .....	B
Alcohol(C12-C16) poly(1-6)ethoxylates .....	C
Alcohol(C12-C16) poly(7-19)ethoxylates .....	C
Alkanes (C6-C9) .....	III
n-Alkanes (C10+) .....	D
iso- & cyclo-Alkanes (C10-C11) .....	

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
iso- & cyclo-Alkanes (C12+)	III
Alkaryl polyether (C9–C20)	B
Alkenyl(C11+) amine	D
Alkenyl(C16–C20) succinic anhydride	D
Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture	D
Alkyl(C9+)benzenes	III
Alkylbenzenesulfonic acid (4% or less)	#
Alkyl dithiothiadiazole (C6–C24)	D
Alkyl ester copolymer (C4–C20)	D
Alkyl(C7–C11) phenol poly(4–12)ethoxylates	B
Alkyl phenol sulfide (C8–C40), see Alkyl(C8–C40) phenol sulfide	.....
Alkyl(C8–C40) phenol sulfide	D
Alkyl(C9–C15) phenyl propoxylate	III
n-Alkyl phthalates, see individual phthalates	.....
Alkyl sulfonic acid ester of phenol	.....
Aminoethyldiethanolamine, Aminoethylethanolamine solution	III
Amyl acetate (all isomers)	III
Amyl alcohol (iso-, n-, sec-, primary)	C
Amyl alcohol (tert-)	D
Amylene, see Pentene (all isomers)	III
tert-Amyl methyl ether (Methyl tert-pentyl ether)	C
Amyl methyl ketone, see Methyl amyl ketone	C
Animal and Fish oils, n.o.s.	D
(see also Oil, edible, or Oil, misc.)	.....
Including:	.....
Cod liver oil	.....
Lanolin	.....
Neatsfoot oil	.....
Pilchard oil	.....
Sperm oil	.....
Animal and Fish acid oils and distillates, n.o.s.	D
Including:	.....
Animal acid oil	.....
Fish acid oil	.....
Lard acid oil	.....
Mixed acid oil	.....
Mixed general acid oil	.....
Mixed hard acid oil	.....
Mixed soft acid oil	.....
Aryl polyolefin (C11–C50)	D
Asphalt	I
Asphalt blending stocks:	.....
Roofers flux	I
Straight run residue	I
Barium long chain (C11–C50) alkaryl sulfonate	B
Barium long chain alkyl(C8–C14)phenate sulfide	[A]
Behenyl alcohol	III
Benzene tricarboxylic acid trioctyl ester	III
Benzyl alcohol	C
Brake fluid base mixtures (containing Poly(2–8)alkylene(C2–C3) glycols, Polyalkylene(C2–C10) glycol monoalkyl(C1–C4) ethers, and their borate esters)	D
Butane	LFG
Butene, see Butylene.	.....
Butene oligomer	B
Butyl acetate (all isomers)	C
Butyl alcohol (iso-, n-, sec-, tert-), see Butyl alcohol (all isomers)	.....
Butyl alcohol (all isomers)	III
Butyl benzyl phthalate	A
Butylene	LFG
Butylene glycol	D

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
1,3-Butylene glycol, see Butylene glycol	.....
Butylene polyglycol, see Butylene glycol	.....
iso-Butyl formate	D
n-Butyl formate	@D
Butyl heptyl ketone	[C]
Butyl methyl ketone, see Methyl butyl ketone	.....
n-Butyl propionate	C
Butyl stearate	III
Butyl toluene	@A
gamma-Butyrolactone	D
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture	A
Calcium alkyl salicylate, see Calcium long chain alkyl salicylate (C13+)	.....
Calcium long chain alkaryl sulfonate (C11–C50)	D
Calcium long chain alkyl phenate (C8–C40), see Calcium long chain alkyl(C5–C10) phenate or Calcium long chain alkyl(C11–C40) phenate	.....
Calcium long chain alkyl(C5–C10) phenate	C
Calcium long chain alkyl(C11–C40) phenate	D
Calcium long chain alkyl phenate sulfide (C8–C40)	D
Calcium long chain alkyl phenolic amine (C8–C40)	III
Calcium long chain alkyl salicylate (C13+)	C
Caprolactam solutions	D
Cetyl alcohol (hexadecanol), see Alcohols (C13+)	.....
Cetyl-Stearyl alcohol, see Alcohols (C13+)	III
† Coal tar	A
Copper salt of long chain (C17+) alkanoic acid	[D]
Cumene (isopropylbenzene), see Propylbenzene (all isomers)	.....
Cyclohexane	C
Cyclohexanol	D
1,3-Cyclopentadiene dimer (molten)	B
p-Cymene	C
Decahydronaphthalene	D
iso-Decaldehyde	@C
n-Decaldehyde	@B
Decane, see n-Alkanes (C10+)	.....
Decene	B
Decyl acetate	B
Decyl alcohol (all isomers)	B
n-Decylbenzene, see Alkyl(C9+)benzenes	III
Detergent alkylate	D
Diacetone alcohol	D
Dialky(C10–C14) benzenes, see Alkyl(C9+)benzenes	.....
Dialky(C8–C9) diphenylamines	D
Dialky(C7–C13) phthalates	D
Including:	.....
Diisodetyl phthalate	.....
Diisooctyl phthalate	.....
Dinonyl phthalate	.....
Ditridecyl phthalate	.....
Diundecyl phthalate	.....
Diethyl carbinol, see Nonyl alcohol (all isomers)	.....
ortho-Dibutyl phthalate	A
Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten)	B
Diethylbenzene	A
Diethylene glycol	D
Diethylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	.....

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
<i>Diethylene glycol butyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate .....</i>	
<i>Diethylene glycol dibutyl ether .....</i>	D
<i>Diethylene glycol diethyl ether .....</i>	III
<i>Diethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....</i>	
<i>Diethylene glycol ethyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate .....</i>	
<i>Diethylene glycol n-hexyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....</i>	
<i>Diethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....</i>	
<i>Diethylene glycol methyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate .....</i>	
<i>Diethylene glycol phenyl ether .....</i>	#
<i>Diethylene glycol phthalate .....</i>	D
<i>Diethylene glycol propyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....</i>	
<i>Di(2-ethylhexyl)adipate .....</i>	D
<i>Di(2-ethylhexyl)phthalate, see Diethyl phthalates .....</i>	
<i>Diethyl phthalate .....</i>	C
<i>Diglycidyl ether of Bisphenol A .....</i>	B
<i>Dihexyl phthalate .....</i>	III
<i>Disobutylcarbinol, see Nonyl alcohol (all isomers) .....</i>	C
<i>Disobutylene .....</i>	B
<i>Disobutyl ketone .....</i>	D
<i>Disobutyl phthalate .....</i>	B
<i>Diisooctyl phthalate .....</i>	III
<i>Diisopropylbenzene (all isomers) .....</i>	A
<i>Diisopropyl naphthalene .....</i>	D
<i>Dimethyl adipate .....</i>	B
<i>Dimethylbenzene, see Xylenes .....</i>	
<i>Dimethyl glutarate .....</i>	C
<i>Dimethyl phthalate .....</i>	C
<i>Dimethylpolysiloxane, see Polymethylsiloxane .....</i>	
<i>2,2-Dimethylpropane-1,3-diol (molten or solution) .....</i>	
<i>Dimethyl succinate .....</i>	D
<i>Dinonyl phthalate, see Dialkyl(C7-C13) phthalates .....</i>	C
<i>Diocyl phthalate .....</i>	III
<i>Dipentene .....</i>	C
<i>Diphenyl .....</i>	A
<i>Diphenyl, Diphenyl ether mixture .....</i>	A
<i>Diphenyl ether .....</i>	A
<i>Diphenyl ether, Biphenyl phenyl ether mixture .....</i>	A
<i>Dipropylene glycol .....</i>	III
<i>Dipropylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....</i>	[D]
<i>Dipropylene glycol dibenzoate .....</i>	
<i>Dipropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....</i>	
<i>Distillates:</i>	
<i>Flashed feed stocks .....</i>	I
<i>Straight run .....</i>	I
<i>Ditridecyl adipate .....</i>	III

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
<i>Ditridecyl phthalate, see Dialkyl(C7-C13) phthalates .....</i>	
<i>Diundecyl phthalate, see Dialkyl(C7-C13) phthalates .....</i>	
<i>Dodecane (all isomers), see also n-Alkanes (C10+) .....</i>	III
<i>Dodecanol .....</i>	B
<i>Dodecene (all isomers) .....</i>	B
<i>Dodecyl alcohol, see Dodecanol .....</i>	
<i>Dodecylbenzene, see Alkyl(C9+)benzenes .....</i>	III
<i>Dodecyl hydroxypropyl sulfide .....</i>	A
<i>Dodecyl phenol .....</i>	A
<i>Dodecyl xylene .....</i>	III
<i>Drilling mud (low toxicity) (if flammable or combustible) .....</i>	[III]
<i>Ethane .....</i>	LFG
<i>2-Ethoxyethyl acetate .....</i>	C
<i>Ethoxylated alkoxy alkyl amine, see Ethoxylated long chain (C16+) alkoxyalkanamine .....</i>	
<i>Ethoxylated long chain (C16+) alkoxyalkanamine .....</i>	
<i>Ethoxylated long chain (C16+) alkoxyalkanamine .....</i>	D
<i>Ethoxy triglycol (crude) .....</i>	D
<i>Ethyl acetate .....</i>	D
<i>Ethyl acetoacetate .....</i>	D
<i>Ethyl alcohol .....</i>	III
<i>Ethyl amylo ketone .....</i>	C
<i>Ethylbenzene .....</i>	B
<i>Ethylbutanol .....</i>	@D
<i>Ethyl tert-butyl ether .....</i>	C
<i>Ethyl butyrate .....</i>	C
<i>Ethyl cyclohexane .....</i>	C
<i>Ethylene .....</i>	LFG
<i>Ethylene carbonate .....</i>	III
<i>Ethylene glycol .....</i>	D
<i>Ethylene glycol acetate .....</i>	D
<i>Ethylene glycol butyl ether acetate .....</i>	C
<i>Ethylene glycol diacetate .....</i>	C
<i>Ethylene glycol dibutyl ether .....</i>	[D]
<i>Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate .....</i>	
<i>Ethylene glycol methyl butyl ether .....</i>	D
<i>Ethylene glycol methyl ether acetate .....</i>	C
<i>Ethylene glycol phenyl ether .....</i>	D
<i>Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture .....</i>	D
<i>Ethylene-Propylene copolymer (in liquid mixtures) .....</i>	[III]
<i>Ethyl-3-ethoxypropionate .....</i>	C
<i>2-Ethylhexaldehyde, see Octyl aldehydes .....</i>	
<i>2-Ethylhexanoic acid, see Octanoic acid (all isomers) .....</i>	
<i>2-Ethylhexanol, see Octanol (all isomers) .....</i>	
<i>Ethylhexoic acid, see 2-Ethylhexanoic acid .....</i>	
<i>Ethyl hexyl phthalate .....</i>	C
<i>2-Ethyl-(hydroxymethyl) propane-1,3-diol, C8-C10 ester .....</i>	D
<i>Ethyl propionate .....</i>	D
<i>Ethyl toluene .....</i>	B
<i>Fatty acid (saturated, C13+), see Fatty acid (saturated, C14+) .....</i>	
<i>Fatty acid (saturated, C14+) .....</i>	III
<i>Formamide .....</i>	D
<i>Furfuryl alcohol .....</i>	C
<i>† Gas oil, cracked .....</i>	I
<i>Gasoline blending stocks:</i>	
<i>Alkylates .....</i>	I
<i>Reformates .....</i>	I

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**TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued**

Cargo name	IMO Annex II Pollution Category
Gasolines:	
† Automotive (containing not over 4.23 grams lead per gallon) .....	I
† Aviation (containing not over 4.86 grams lead per gallon) .....	I
Casinghead (natural) .....	I
Polymer .....	I
† Straight run .....	I
Glycerine .....	III
Glycerine (83%), Dioxanedimethanol (17%) mixture .....	D
Glycerol, see Glycerine .....	
Glycerol monooleate .....	D
Glycerol polyalkoxylate .....	III
Glycerol triacetate .....	III
Glycidyl ester of tertiary carboxylic acid, see Glycidyl ester of tridecyl acetic acid .....	
Glycidyl ester of C10 trialkylacetic acid, see Glycidyl ester of tridecyl acetic acid .....	B
Glycidyl ester of tridecyl acetic acid .....	B
Glycidyl ester of versatic acid, see Glycidyl ester of tridecyl acetic acid .....	
Glycol diacetate, see Ethylene glycol diacetate .....	
Glycol triacetate, see Glycerol triacetate .....	
Glycoxal solution (40% or less) .....	D
Glyphosate solution (not containing surfactant) .....	D
Heptadecane, see n-Alkanes (C10+) .....	
Heptane (all isomers), see Alkanes (C6–C9) .....	C
Heptanoic acid .....	D
Heptanol (all isomers) .....	C
Heptene (all isomers) .....	C
Heptyl acetate .....	B
Hericide (C15 -H22 -NO2 -Cl), see Metolachlor .....	
1-Hexadecylnaphthalene, 1,4-bis(Hexadecyl)naphthalene mixture .....	III
Hexaethylene glycol, see Polyethylene glycol .....	
Hexamethylene glycol .....	III
Hexamethylenetetramine solutions .....	D
Hexane (all isomers), see Alkanes (C6–C9) .....	C
Hexanoic acid .....	D
Hexanol .....	D
Hexene (all isomers) .....	C
Hexyl acetate .....	B
Hexylene glycol .....	III
Hog grease, see Lard .....	C
2-Hydroxy-4-(methylthio)butanoic acid .....	
Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated .....	
Isophorone .....	D
Jet fuels:	
† JP-4 .....	I
JP-5 (kerosene, heavy) .....	I
JP-8 .....	@I
Kerosene .....	D
Lactic acid .....	III
Lard .....	D
Latex (ammonia (1% or less) inhibited) .....	D
Latex, liquid synthetic .....	III
including:	
Styrene-butadiene rubber .....	III
Carboxylated styrene-butadiene copolymer .....	III
Lecithin .....	III
Long chain alkaryl polycyclic (C11–C20) .....	C
Long chain alkaryl sulfonic acid (C16–C60) .....	D
Long chain alkylphenate/Phenol sulfide mixture .....	III
Magnesium long chain alkaryl sulfonate (C11–C50) .....	D

**TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued**

Cargo name	IMO Annex II Pollution Category
Magnesium long chain alkyl phenate sulfide (C8–C20) .....	[D]
Magnesium long chain alkyl salicylate (C11+) .....	C
Magnesium nonyl phenol sulfide, see Magnesium long chain alkyl phenate sulfide (C8–C20) .....	
Magnesium sulfonate, see Magnesium long chain alkaryl sulfonate (C11–C50) .....	
2-Mercaptobenzothiazol (in liquid mixtures) .....	#
Methane .....	LFG
3-Methoxy-1-butanol .....	III
3-Methoxybutyl acetate .....	D
1-Methoxy-2-propyl acetate .....	#
Methoxy triglycol (triethylene glycol methyl ether), see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	
Methyl acetate .....	III
Methyl acetoacetate .....	D
Methyl alcohol .....	D
Methyl amyl acetate .....	C
Methyl amyl alcohol .....	C
Methyl amyl ketone .....	D
Methyl butanol, see the amyl alcohols .....	
Methyl butenol .....	D
Methyl tert-butyl ether .....	D
Methyl butyl ketone .....	D
Methyl butyrate .....	C
Methyl ethyl ketone .....	III
N-Methylglucamine solution (70% or less) .....	III
Methyl heptyl ketone .....	B
Methyl isobutyl carbinol, see Methyl amyl alcohol .....	
Methyl isobutyl ketone .....	D
3-Methyl-3-methoxybutanol .....	III
3-Methyl-3-methoxybutyl acetate .....	III
Methyl naphthalene .....	A
Methyl pentene, see Hexene (all isomers) .....	
Methyl tert-pentyl ether (IMO cargo name) tert-Amyl methyl ether .....	
2-Methyl-1,3-propanediol .....	III
Methyl propyl ketone .....	D
N-Methyl-2-pyrrolidone .....	D
Metolachlor .....	B
Mineral spirits .....	I
Myrcene .....	D
Naphtha:	
† Aromatic (having less than 10% Benzene) .....	@I
Heavy .....	@I
Paraffinic .....	@I
† Petroleum .....	I
† Solvent .....	I
Stoddard Solvent .....	@I
† Varnish makers' and painters' (75%) .....	@I
Naphthalene sulfonic acid-formaldehyde co-polymer, sodium salt solution .....	D
Naphthenic acid .....	A
Nonane (all isomers), see Alkanes (C6–C9) .....	C
Nonanoic acid (all isomers) .....	D
Nonanoic, Tridecanoic acid mixture .....	@D
Nonene (all isomers) .....	B
Nonyl acetate .....	C
Nonyl alcohol (all isomers) .....	C
Nonyl methacrylate monomer .....	D
Nonyl phenol .....	A
Nonyl phenol poly(4+)-ethoxylates .....	B
Nonyl phenol sulfide (90% or less), see Alkyl phenol sulfide (C8–C40) .....	

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Noxious liquid, N.F., (1) n.o.s. ("trade name" contains "principle components") ST 1, Cat A ( <i>if combustible</i> ) .....	A
Noxious liquid, F., (2) n.o.s. ("trade name" contains "principle components") ST 1, Cat A .....	A
Noxious liquid, N.F., (3) n.o.s. ("trade name" contains "principle components") ST 2, Cat A ( <i>if combustible</i> ) .....	A
Noxious liquid, F., (4) n.o.s. ("trade name" contains "principle components") ST 2, Cat A .....	A
Noxious liquid, N.F., (5) n.o.s. ("trade name" contains "principle components") ST 2, Cat B ( <i>if combustible</i> ) .....	B
Noxious liquid, N.F., (6) n.o.s. ("trade name" contains "principle components") ST 2, Cat B, mp. equal to or greater than 15 deg. C ( <i>if combustible</i> ) .....	B
Noxious liquid, F., (7) n.o.s. ("trade name" contains "principle components") ST 2, Cat B .....	B
Noxious liquid, F., (8) n.o.s. ("trade name" contains "principle components") ST 2, Cat B, mp. equal to or greater than 15 deg. C ....	B
Noxious liquid, N.F., (9) n.o.s. ("trade name" contains "principle components") ST 3, Cat A ( <i>if combustible</i> ) .....	A
Noxious liquid, F., (10) n.o.s. ("trade name" contains "principle components") ST 3, Cat A .....	A
Noxious liquid, N.F., (11) n.o.s. ("trade name" contains "principle components") ST 3, Cat B ( <i>if combustible</i> ) .....	B
Noxious liquid, N.F., (12) n.o.s. ("trade name" contains "principle components") ST 3, Cat B, mp. equal to or greater than 15 deg. C ( <i>if combustible</i> ) .....	B
Noxious liquid, F., (13) n.o.s. ("trade name" contains "principle components") ST 3, Cat B .....	B
Noxious liquid, F., (14) n.o.s. ("trade name" contains "principle components") ST 3, Cat B, mp. equal to or greater than 15 deg. C ....	B
Noxious liquid, N.F., (15) n.o.s. ("trade name" contains "principle components") ST 3, Cat C ( <i>if combustible</i> ) .....	C
Noxious liquid, F., (16) n.o.s. ("trade name" contains "principle components") ST 3, Cat C .....	C
Noxious liquid, n.o.s. (17) ("trade name," contains "principal components"), Category D ( <i>if flammable or combustible</i> ) .....	D
Non-noxious liquid, n.o.s. (18) ("trade name," contains "principal components"), Appendix III ( <i>if flammable or combustible</i> ) .....	III
<i>Octadecene, see the olefin or alpha-olefin entries</i> .....	
Octadecenoamide solution ( <i>oleamide</i> ) .....	[D]
Octane (all isomers), <i>see Alkanes</i> (C6-C9) .....	C
Octanoic acid (all isomers) .....	D
Octanol (all isomers) .....	C
Octene (all isomers) .....	B
Octyl acetate .....	C
Octyl alcohol ( <i>iso-, n-</i> ), <i>see Octanol</i> (all isomers) .....	
Octyl aldehydes .....	B
Octyl decyl adipate .....	III

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
<i>Octyl phthalate (Di-(2-ethylhexyl)phthalate), see Diethyl phthalates</i> .....	
Oil, edible:	
Beechnut .....	D
Castor .....	D
Cocoa butter .....	D
Coconut .....	D
Cod liver .....	D
Corn .....	D
Cottonseed .....	D
Fish, n.o.s. ....	D
Groundnut .....	D
Hazelnut .....	D
Lard .....	D
Maize, <i>see</i> Corn oil .....	D
Nutmeg butter .....	D
Olive .....	D
Palm .....	D
Palm kernel .....	D
Peanut .....	D
Poppy .....	D
Raisin seed .....	D
Rapeseed .....	D
Rice bran .....	D
Safflower .....	D
Salad .....	D
Sesame .....	D
Soya bean .....	D
Sunflower, <i>see</i> Sunflower seed .....	D
Sunflower seed .....	D
Tucum .....	D
Vegetable, n.o.s. ....	D
Walnut .....	D
Oil, fuel:	
No. 1 ( <i>kerosene</i> ) .....	I
No. 1-D .....	I
No. 2 .....	I
No. 2-D .....	I
No. 4 .....	I
No. 5 .....	I
No. 6 .....	I
Oil, misc:	
Aliphatic .....	@I
Animal, n.o.s. ....	D
Aromatic .....	I
Clarified .....	I
Coal .....	#
Coconut oil, fatty acid .....	C
Coconut oil, fatty acid methyl ester .....	D
Cottonseed, fatty acid, <i>see</i> Cottonseed oil, fatty acid .....	
† Crude .....	I
Diesel .....	I
Gas, high pour .....	@I
Gas, low pour .....	@I
Gas, low sulfur .....	@I
Heartcut distillate .....	I
Lanolin .....	D
Linseed .....	D
Lubricating .....	I
Mineral .....	I
Mineral seal .....	@I
Motor .....	I
Neatsfoot .....	D
Oiticica .....	D
Palm oil, fatty acid methyl ester .....	D
Penetrating .....	I
Perilla .....	D

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**TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued**

Cargo name	IMO Annex II Pollution Category
Pilchard .....	D
Pine .....	C
Residual .....	I
Road .....	I
Rosin .....	B
Seal .....	I
Soapstock .....	#
Soya bean (epoxidized) .....	[D]
Sperm .....	D
Spindle .....	I
Tall .....	B
Tall, fatty acid .....	C
Transformer .....	I
Tung .....	D
Turbine .....	I
Whale .....	D
alpha-Olefins (C6–C18) .....	B
alpha-Olefins (C13–C18) .....	III
Olefin mixtures (C5–C7) .....	C
Olefin mixtures (C5–C15) .....	B
Olefins (C13+, all isomers) .....	III
Olefin/Akyl ester copolymer (molecular weight 2000+) .....	D
Oleic acid .....	D
Oleyl alcohol ( <i>octadecenol</i> ), see Alcohols (C13+) .....	[D]
Palm kernel acid oil, methyl ester .....	D
Palm stearin .....	D
<i>n</i> -Paraffins (C10–C20), see <i>n</i> -Alkanes (C10+) .....	[D]
Pentadecanol, see Alcohols (C13+) .....	D
Pentaethylene glycol, see Polyethylene glycols .....	[D]
Pentaethylenhexamine .....	D
Pentane (all isomers) .....	C
Pentanoic acid .....	D
Pentene (all isomers) .....	C
<i>n</i> -Pentyl propionate .....	C
Petrolatum .....	C
1-Phenyl-1-xylyl ethane .....	III
Phosphate esters, alkyl(C12–C14) amine .....	C
Phosphosulfurized bicyclic terpene .....	B
<i>Pinene</i> , see the <i>alpha</i> - or <i>beta</i> -isomers .....	#
alpha-Pinene .....	A
beta-Pinene .....	B
Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures .....	@ D
Polyalkylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	D
Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	D
Including: Diethylene glycol butyl ether Diethylene glycol ethyl ether Diethylene glycol <i>n</i> -hexyl ether Diethylene glycol methyl ether Diethylene glycol <i>n</i> -propyl ether Dipropylene glycol butyl ether Dipropylene glycol methyl ether Polypropylene glycol methyl ether Triethylene glycol butyl ether Triethylene glycol ethyl ether Triethylene glycol methyl ether Tripropylene glycol methyl ether Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether acetate .....	D
Including: Diethylene glycol butyl ether acetate Diethylene glycol ethyl ether acetate Diethylene glycol methyl ether acetate	D

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**TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued**

Cargo name	IMO Annex II Pollution Category
Polyalkylene oxide polyol .....	C
<i>Polycarboxylic ester</i> (C9+), see <i>Ditridecyl adipate</i> .....	D
Polybutadiene, hydroxy terminated .....	[III]
Polybutene .....	III
Polybutenyl succinimide .....	D
Polydimethylsiloxane .....	#
Polyether (molecular weight 2000+) .....	D
Polyethylene glycol .....	III
Polyethylene glycol dimethyl ether .....	III
Polyethylene glycol <i>monoalkyl ether</i> , see <i>Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether</i> .....	[III]
Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide) .....	III
Polyglycerol .....	III
Polyisobutylene anhydride adduct .....	III
Poly(4+)-isobutylene .....	III
Polymerized esters .....	#
Polyolefin (molecular weight 300+) .....	III
Polyolefin amide alkeneamine (C17+) .....	D
Polyolefin amide alkeneamine (C28+) .....	D
Polyolefin amide alkeneamine borate (C28–C250) .....	D
Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture .....	C
Polyolefin amide alkeneamine polyol .....	D
Polyolefin anhydride .....	D
Polyolefin ester (C28–C250) .....	D
Polyolefin phenolic amine (C28–C250) .....	D
Polyolefin phosphorosulfide, barium derivative (C28–C250) .....	C
Poly(20)-oxypolyethylene sorbitan monoleate .....	III
Poly(5+)-propylene .....	III
Polypropylene glycol .....	D
<i>Polypropylene glycol methyl ether</i> , see <i>Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether</i> .....	[III]
Polysiloxane .....	III
Potassium oleate .....	C
Potassium salt of polyolefin acid .....	III
Propane .....	LFG
<i>n</i> -Propoxypropanol ( <i>propylene glycol propyl ether</i> ), see <i>Propylene glycol monoalkyl ether</i> .....	[III]
<i>iso</i> -Propyl acetate .....	D
<i>iso</i> -Propyl alcohol .....	III
<i>n</i> -Propyl alcohol .....	III
<i>iso</i> -Propylbenzene ( <i>cumene</i> ), see <i>Propylbenzene (all isomers)</i> .....	A
<i>n</i> -Propylbenzene, see <i>Propylbenzene (all isomers)</i> .....	C
Propylbenzene (all isomers) .....	LFG
iso-Propylcyclohexane .....	III
Propylene .....	III
Propylene-butylene copolymer .....	III
Propylene carbonate .....	C
Propylene dimer .....	III
Propylene glycol .....	C
<i>Propylene glycol n-butyl ether</i> , see <i>Propylene glycol monoalkyl ether</i> .....	III
<i>Propylene glycol ethyl ether</i> , see <i>Propylene glycol monoalkyl ether</i> .....	III
<i>Propylene glycol methyl ether</i> , see <i>Propylene glycol monoalkyl ether</i> .....	III
<i>Propylene glycol methyl ether acetate</i> .....	D
<i>Propylene glycol monoalkyl ether</i> .....	D
Including:	

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
<i>n</i> -Propoxypropanol	
Propylene glycol n-butyl ether	
Propylene glycol ethyl ether	
Propylene glycol methyl ether	
Propylene glycol propyl ether	
Propylene glycol phenyl ether	D
Propylene glycol propyl ether, see Propylene glycol monoalkyl ether	
Propylene polymer (in liquid mixtures)	#
Propylene trimer	B
Pseudocumene, see Trimethylbenzenes	B
Rum, see Alcoholic beverages, n.o.s.	
Sodium acetate, Glycol, Water mixture (containing 1% or less, Sodium hydroxide) (if flammable or combustible)	
Sodium acetate solution	#
Sodium benzoate solution	D
Sodium long chain alkyl salicylate (C13+)	[C]
Soyabean oil (epoxidized)	[D]
Stearic acid, see Fatty acid (saturated, C14+)	
Stearyl alcohol (octadecanol)	III
Sulfohydrocarbon (C3–C88)	D
Sulfohydrocarbon, long chain (C18+) alkylamine	B
Sulfolane	D
Sulfurized fat (C14–C20)	D
Sulfurized polyolefinamide alkene(C28–C250)amine	D
Tallow	D
Tallow alcohol, see Alcohols (C13+)	
Tallow fatty acid	D
Tallow alkyl nitrile	#
Tetradecanol, see Alcohols (C13+)	
Tetradecene, see the olefin or alpha-olefin entries	
Tetradecylbenzene, see Alkyl(C9+)benzenes	III
Tetraethylene glycol	III
Tetrahydronaphthalene	C
Tetrapropylbenzene, see Alkyl(C9+)benzenes	
Toluene	C
Triarylpophosphate, see Triisopropylated phenyl phosphates	
Tributyl phosphate	B
Tricresyl phosphate (less than 1% of the ortho isomer)	A
Tridecane, see n-Alkanes (C10+)	
Tridecanoic acid	B
Tridecanol, see Alcohols (C13+)	
Tridecene, see Olefins (C13+)	
Tridecyl acetate	III
Tridecylbenzene, see Alkyl(C9+)benzenes	III
Triethylbenzene	A
Triethylene glycol	III
Triethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether	
Triethylene glycol butyl ether mixture	#
Triethylene glycol di(2-ethylbutyrate)	[C]
Triethylene glycol ether mixture	#
Triethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether	
Triethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether	
Triethyl phosphate	D
Triisooctyl trimellitate	#
Triisopropanolamine	III
Triisopropylated phenyl phosphates	A
Trimethylbenzene (all isomers)	A

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Trimethylol propane polyethoxylate	D
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	III
2,2,4-Trimethyl-3-pentanol-1-isobutyrate	#
Tripropylene, see Propylene trimer	
Tripropylene glycol	III
Tripropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether	
Trixylenyl phosphate	A
Trixylenyl phosphate, see Trixylenyl phosphate	A
Turpentine	B
†Turpentine substitute, see White spirit (low (15–20%) aromatic)	
Undecanol, see 1-Undecyl alcohol	
Undecene	B
1- Undecyl alcohol	B
Undecylbenzene, see Alkyl(C9+)benzenes	III
Vegetable oils, n.o.s. (see also Oil, edible)	D
Including:	
Beechnut oil	
Castor oil	
Cocoa butter	
Coconut oil	
Corn oil	
Cottonseed oil	
Groundnut oil	
Hazelnut oil	
Linseed oil	
Nutmeg butter	
Oiticica oil	
Olive oil	
Palm kernel oil	
Palm oil	
Peel oil (oranges and lemons)	
Perilla oil	
Poppy oil	
Raisin seed oil	
Rapeseed oil	
Rice bran oil	
Safflower oil	
Salad oil	
Sesame oil	
Soya bean oil	
Sunflower seed oil	
Tucum oil	
Tung oil	
Walnut oil	
Vegetable acid oils and distillates, n.o.s.	D
Including:	
Corn acid oil	
Cottonseed acid oil	
Dark mixed acid oil	
Groundnut acid oil	
Mixed acid oil	
Mixed general acid oil	
Mixed hard acid oil	
Mixed soft acid oil	
Rapeseed acid oil	
Safflower acid oil	
Soya acid oil	
Sunflower seed acid oil	
Waxes:	
Candelilla	D
Carnauba	@ D
Paraffin	@ D
†White spirit, see White spirit (low (15–20% aromatic))	III
†White spirit (low (15–20%) aromatic)	B
Wine, see Alcoholic beverages, n.o.s.	

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TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Xylenes ( <i>ortho</i> -, <i>meta</i> -, <i>para</i> -) .....	C
Zinc alkaryl dithiophosphate (C7-C16) .....	C
Zinc alkenyl carboxamide .....	D
Zinc alkyl dithiophosphate (C3-C14) .....	B

NOTE: See table 2 of part 153 for additional cargoes permitted to be carried by tank barge.

Explanation of Symbols: As used in this table the following stands for:

A, B, C, D—NLS Category of Annex II of MARPOL 73/78.  
I—Considered an "oil" under Annex I of MARPOL 73/78.  
III—Appendix III of Annex II (non-NLS cargoes) of MARPOL 73/78.

LFG—Liquefied flammable gas.

#—No determination of NLS status. For shipping on an oceangoing vessel, see 46 CFR 153.900(c).

[ ]—A NLS category in brackets indicates that the product is provisionally categorized and that further data are necessary to complete the evaluation of its pollution hazards. Until the hazard evaluation is completed, the pollution category assigned is used.

@—The NLS category has been assigned by the U.S. Coast Guard, in absence of one assigned by the IMO. The category is based upon a GESAMP Hazard Profile or by analogy to a closely related product having an NLS assigned.

†—The provisions contained in 46 CFR part 197, subpart C, may apply to this cargo.

Abbreviations for Noxious liquid Cargo:

N.F.—non-flammable (flash point greater than 60 degrees C (140 degrees F) cc).

F—flammable (flash point less than or equal to 60 degrees C (140 degrees F) cc).

n.o.s.—not otherwise specified.

ST—Ship type.

Cat—Pollution category.

Words in italic are not part of the cargo name but may be used in addition to the cargo name.

When one entry references another entry by use of the word "see", and both names are in roman type, either name may be used as the cargo name (e.g., Diethyl ether, see Ethyl ether). However, the referenced entry is preferred.

[CGD 00-7079, 65 FR 67157, Nov. 8, 2000]

### § 30.25-3 Benzene.

The provisions contained in 46 CFR part 197, subpart C, apply to liquid cargoes containing 0.5% or more benzene by volume.

[CGD 88-040, 56 FR 65006, Dec. 13, 1991]

## Subpart 30.30—Interim Procedures for Evaluating Vessel Personnel Licensing and Certification Programs of Foreign Countries

SOURCE: CGD 79-081a, 45 FR 23427, Apr. 7, 1980, unless otherwise noted.

### § 30.30-1 Scope and purpose.

(a) This subpart contains procedures for evaluating vessel personnel licensing and certification programs of for-

### § 30.30-7

eign countries. Evaluations are done for countries which license or certify personnel serving on tank vessels that enter or operate in U.S. navigable waters and ports.

(b) The purpose of each evaluation is to determine whether a foreign licensing and certification program has standards that are comparable to or more stringent than U.S. standards.

(c) A determination that licensing and certification standards of a foreign country are not comparable to or more stringent than U.S. standards will subject tank vessels manned with officers licensed by that country to the prohibition in 33 U.S.C. 1228(a)(5) on operation with those officers in U.S. navigable waters and ports.

### § 30.30-3 Evaluation materials.

The materials to be submitted for evaluation must include the English text of the following:

(a) All laws, decrees, orders, and regulations relating to manning, training, qualification, and watchkeeping of personnel on tank vessels engaged in foreign trade.

(b) A copy of each type of license and certificate issued by the country to tank vessel personnel.

### § 30.30-5 Submission of evaluation materials.

(a) The evaluation materials listed in § 30.30-3 should be sent to Commandant (G-MOC), U.S. Coast Guard Headquarters, 2100 Second Street, SW., Washington, DC 20593. The materials should include the name and address of the person to whom correspondence concerning the evaluation can be sent.

(b) Updated materials may be submitted at any time during the evaluation process.

[CGD 79-081a, 45 FR 23427, Apr. 7, 1980, as amended by CGD 95-072, 60 FR 50461, Sept. 29, 1995; CGD 96-041, 61 FR 50726, Sept. 27, 1996]

### § 30.30-7 Availability of materials.

Evaluation materials submitted in accordance with this subpart will be available for inspection and copying between 7:30 a.m. and 4:30 p.m., Monday through Thursday, except holidays, at Coast Guard Headquarters, room 1104,